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- (71) Applicant (for all designated States except US): MERCK & CO., INC. [US/US]; 126 East Lincoln Avenue, Rahway, NJ 07065-0907 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): DUGGAN, Mark, E. [US/US]; 126 East Lincoln Avenue, Rahway, NJ 07065-0907 (US). LINDSLEY, Craig, W. [US/US]; 126 East Lincoln Avenue, Rahway, NJ 0706-0907 (US). ZHAO, Zhijian [CN/US]; 126 East Lincoln Avenue, Rahway, NJ 07065-0907 (US).

- (74) Common Representative: MERCK & CO., INC.; 126 East Lincoln Avenue, Rahway, NJ 07065-0907 (US).
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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: INHIBITORS OF AKT ACTIVITY

(57) Abstract: The present invention is directed to compounds comprising a 2,3-diphenylpyrazine moiety which inhibit the activity of Akt, a serine/threonine protein kinase. The invention is further directed to chemotherapeutic compositions containing the compounds of this invention and methods for treating cancer comprising administration of the compounds of the invention.



International application No.

PCT/US03/10342

A. CLASSIFICATION OF SUBJECT MATTER				
IPC(7) : A61K 31/497; C07D 401/14				
	US CL : 514/255.05; 544/405 According to International Patent Classification (IPC) or to both national classification and IPC			
B. FIELDS SEARCHED				
Minimum documentation searched (classification system followed by classification symbols) U.S.: 514/255.05; 544/405.				
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched				
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) CAS ONLINE STRUCTURE SEARCH				
C. DOCUMENTS CONSIDERED TO BE RELEVANT				
Category *	Citation of document, with indication, where a	ppropriate, of the relevant passages Relevant to claim No.		
Ā	US 5,932,580 A (LEVITZKI et al.) 03 August 1999	0 (03.08.1999). 1-27		
	r documents are listed in the continuation of Box C.	See patent family annex.		
"A" documen	Special categories of cited documents:  It defining the general state of the art which is not considered to be ular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention  "X" document of particular relevance; the claimed invention cannot be		
"E" earlier ap	oplication or patent published on or after the international filing date	considered novel or cannot be considered to involve an inventive step when the document is taken alone		
establish specified		"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination		
"O" documen	at referring to an oral disclosure, use, exhibition or other means	being obvious to a person skilled in the art		
"P" document published prior to the international filing date but later than the priority date claimed		"&" document member of the same patent family		
Date of the actual completion of the international search		Date of mailing of the international search report		
24 July 2003 (24.07.2003)				
Name and mailing address of the ISA/US  Mail Stop PCT, Attn: ISA/US  Commissioner for Patents		Date of mailing of the international search report  17 OCT 2003  Authorized officer  Emily Bernhardt Sulkerice 400		
P.O. Box 1450		Telephone No. (703) 308-1235		
Alexandria, Virginia 22313-1450 Facsimile No. (703)305-3230				



International application No.

PCT/US03/10342

Box I Observations where certain claims were found unsearchable (Continuation of Item 1 of first sheet)			
This international report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:			
Claim Nos.:     because they relate to subject matter not required to be searched by this Authority, namely:			
2. Claim Nos.: 1-5, 10-27 (all in part) because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically: Please See Continuation Sheet			
3. Claim Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).			
Box II Observations where unity of invention is lacking (Continuation of Item 2 of first sheet)			
This International Searching Authority found multiple inventions in this international application, as follows:			
1. As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.			
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.			
3. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:			
4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:			
Remark on Protest  The additional search fees were accompanied by the applicant's protest.  No protest accompanied the payment of additional search fees.			

Form PCT/ISA/210 (continuation of first sheet(1)) (July 1998)



PCT/US03/1034.

Continuation of Box I Reason 2:		
The claims relate to an extremely large number of permutations based on the scope of variables as generically set forth in the claims which are not all adequately supported in the description within the meaning of PCT Article 6. The claims have been searched based on the U.S. classification of the working examples in the description and particularly claimed in claims 6-9.		

Form PCT/ISA/210 (second sheet) (July 1998)